

882,881

1 SHEET

COMPLETE SPECIFICATION

*This drawing is a reproduction of
the Original on a reduced scale.*

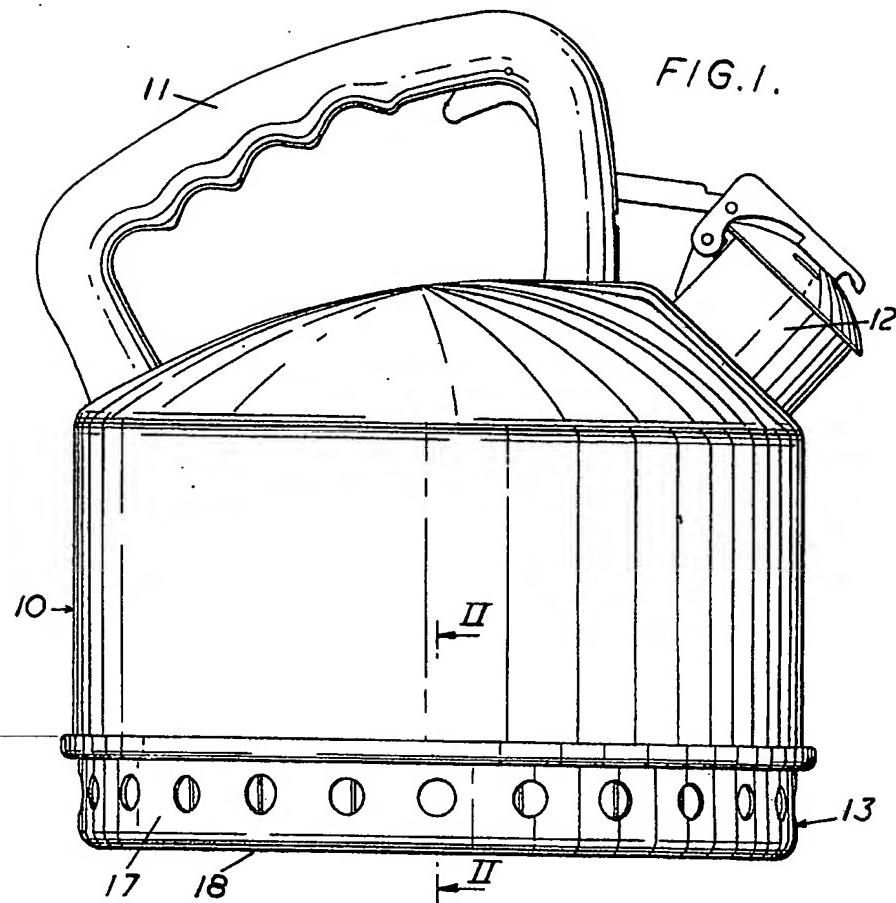
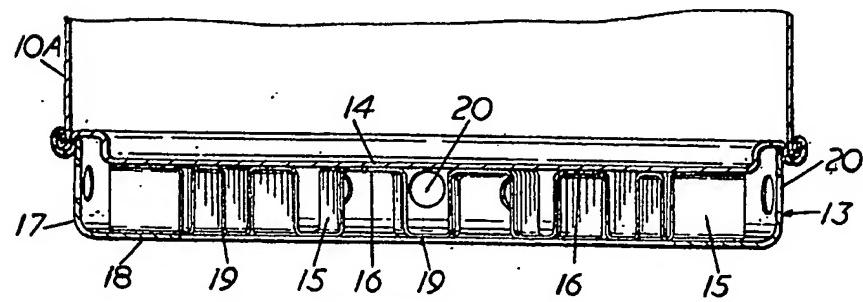


FIG. 2.



PATENT SPECIFICATION

882,881

DRAWINGS ATTACHED.

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International Classification:—A47j.

COMPLETE SPECIFICATION.

Improvements in or relating to Heating Appliances.

We, THE PRESTIGE GROUP LIMITED, a British Company, of Prestige House, 14—18 Holborn, London, E.C.1, do hereby declare the invention, for which we pray 5 that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

The present invention relates to heating 10 appliances such as kettles, saucepans, frying pans and the like, which are designed to be heated by a flame or hot gases, for example, by a gas flame or by a flame from an oil or spirit burner, and has for its 15 object to provide a heating appliance of this kind with improved means for distributing the heat of the flame or gases over the base of the appliance.

Kettles are known in which a heat distributing element in the form of an annulus 20 of helically coiled copper wire is secured by welding to the base of the kettle adjacent the periphery thereof, and is partially covered by an apertured flange which depends downwardly from the kettle and has its lower end turned inwardly to provide a lip upon which the kettle rests. The apertures in the flange are spaced from one another circumferentially of the flange and may be of any convenient size which will 25 suitably control the flow of heat over the helically coiled annulus of copper wire.

According to the present invention there 30 is provided a heating appliance of the kind described in which heat distributing means in the form of one or more transversely flat strips of aluminium are secured in intimate heat-conducting relationship with and projecting from the peripheral region of the

base of the appliance, an apertured flange 40 extends downwardly from the periphery of the base, partially to cover the or each strip, and the lower end of the flange is turned inwardly to provide a supporting lip.

The or each strip is preferably secured 45 to the base of the appliance by welding, brazing or soldering and preferably also the lip of the apertured flange extends inwardly so that the or each strip is substantially sandwiched between the lip and the base of the appliance.

The one or more strips may be of sinuous 50 or undulating form or may be coiled helically, but a continuous flat strip of aluminium fashioned to sinuous or other undulating form is probably the most economical to manufacture.

While the present invention is applicable 55 to heating appliances generally, it finds particular utility in connection with kettles, and an embodiment of the invention will now be described, by way of example, with reference to the accompanying drawings, in which:—

Figure 1 is a side elevation showing a 60 kettle provided with heat distributing means according to the present invention; and

Figure 2 is a section on the line II—II of Figure 1.

Referring to the drawing, the kettle 10 has a handle 11 and a filling and emptying spout 12, both of known construction, and heat distributing means 13 are provided around the periphery of the slightly dished base 14 of the kettle.

The heat distributing means 13 comprise

[Price]

a continuous, transversely flat strip 15 of aluminium which is of undulating form and is welded at each of its crests 16 to the base 14. An apertured metal flange 17 depends from the kettle, partially covering the strip 15, and has its lower end turned inwardly to form a lip or seat 18 upon which the kettle is supported. The flange 17 is welded to three or more of the troughs 19 of the strip 15 at regularly spaced distances around the strip to secure the flange to the kettle. Apertures 20 in the flange 17 are spaced from one another circumferentially of the flange and are of such size that the maximum amount of heat is absorbed by the strip 15 which is secured in intimate heat-conducting relationship with the base of the kettle. Thereby heat distribution is improved and an increased amount of heat is transferred to the kettle.

WHAT WE CLAIM IS:—

1. A heating appliance of the kind described in which heat distributing means in the form of one or more transversely flat strips of aluminium are secured in intimate heat-conducting relationship with and pro-

jecting from the peripheral region of the base of the appliance, an apertured flange extends downwardly from the periphery of the base, partially to cover the or each strip, and the lower end of the flange is turned inwardly to provide a supporting lip. 30

2. A heating appliance as claimed in Claim 1, in which said lip extends inwardly so that the or each strip is substantially sandwiched between the lip and the base of the appliance. 35

3. A heating appliance as claimed in Claim 1 or Claim 2, in which the or each strip is of sinuous or other undulating form. 40

4. A heating appliance as claimed in Claim 1 or Claim 2, in which the or each strip is of helically coiled form. 45

5. A heating appliance constructed and arranged substantially as hereinbefore described with reference to the accompanying drawing. 50

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PROVISIONAL SPECIFICATION.

Improvements in or relating to Heating Appliances.

We, THE PRESTIGE GROUP LIMITED, a British Company, of Prestige House, 14—18 Holborn, London, E.C.1, do hereby declare this invention to be described in the following statement:—

The present invention relates to heating appliances, such as kettles, saucepans, frying pans and the like, which are adapted to be heated by a flame or hot gases, for example, by a gas flame or by a flame from an oil or spirit burner, and has for its object to provide a heating appliance of this character having improved means for distributing the heat of the flame over the base of the appliance.

Kettles are known in which a heat distributing element in the form of an annulus of helically coiled copper wire is secured by welding to the base of the kettle adjacent the periphery thereof, and is partially covered by an apertured flange which depends downwardly from the kettle and has its outer end turned inwardly to provide a lip upon which the kettle rests. The apertures in the flange are spaced from one another circumferentially of the flange and may be of any convenient size which will suitably control the flow of heat over the helically coiled annulus of copper wire.

According to the present invention a heating appliance of the character described

is provided in which heating distributing means in the form of one or more flat strips of aluminium is/are secured in intimate heat conducting relation with the base of the appliance. The one or more strips are preferably secured peripherally to the base of the appliance by welding, brazing or soldering and may be partially covered by an apertured flange which depends downwardly from the appliance and has its outer end turned inwardly to provide a supporting lip. The apertures may be spaced from one another circumferentially of the flange and are of any appropriate sizes. Where no depending flange is provided on the appliance the one or more strips act as a support for the appliance. 85

The one or more strips may be of sinuous or undulating form or may be coiled helically, but it is contemplated that a continuous flat strip of aluminium fashioned to sinuous or undulating form will be more economical to manufacture. 90

While the present invention is applicable to heating appliances generally, it finds particular utility in connection with kettles, and one contemplated form of kettle according to the present invention has heat distributing means in the form of a continuous undulating strip of aluminium secured 100

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110

- to the periphery of the base by welding, brazing or soldering. An apertured metal flange depending from the kettle, partially covers the undulating strip and has its lower end turned inwardly to form a lip or seat upon which the kettle is supported. The apertures are spaced from one another circumferentially of the flange and are of such size that the maximum amount of heat is absorbed by the strip and conducted to the kettle.
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